

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/617,619A  
Source: 1Fu16  
Date Processed by STIC: 1/28/05

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/617,619A

DATE: 01/28/2005

TIME: 16:22:48

Input Set : A:\Substitute Sequence Listing.ST25.txt  
 Output Set: N:\CRF4\01282005\J617619A.raw

3 <110> APPLICANT: Bjorn, Soren E  
 4        Nicolaisen, Else M  
 5        Jorgensen, Anker S  
 7 <120> TITLE OF INVENTION: TF Binding Compound  
 9 <130> FILE REFERENCE: 6455.200-US  
 11 <140> CURRENT APPLICATION NUMBER: 10/617,619A  
**C--> 12 <141> CURRENT FILING DATE: 2003-07-11**  
 14 <150> PRIOR APPLICATION NUMBER: Danish Application No. PA 2002 01099  
 15 <151> PRIOR FILING DATE: 2002-07-12  
 17 <150> PRIOR APPLICATION NUMBER: US 60/404,568  
 18 <151> PRIOR FILING DATE: 2002-08-19  
 20 <160> NUMBER OF SEQ ID NOS: 14  
 22 <170> SOFTWARE: PatentIn version 3.3  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 406  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Artificial  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: Synthetic  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: MISC\_FEATURE  
 35 <222> LOCATION: (1)..(406)  
 36 <223> OTHER INFORMATION: Xaa=4-carboxyglutamic acid (gamma-carboxyglutamate)  
 38 <400> SEQUENCE: 1  
  
**W--> 40 Ala Asn Ala Phe Leu Xaa Xaa Leu Arg Pro Gly Ser Leu Xaa Arg Xaa**  
 41    1                5                10                15  
 44 Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys  
 45        20                25                30  
 48 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp  
 49        35                40                45  
 52 Gln Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln  
 53        50                55                60  
 56 Leu Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn  
 57    65                70                75                80  
 60 Cys Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly  
 61        85                90                95  
 64 Gly Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys  
 65        100                105                110  
 68 Arg Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr  
 69        115                120                125  
 72 Pro Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg  
 73        130                135                140  
 76 Asn Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro

P.6

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/617,619A

DATE: 01/28/2005

TIME: 16:22:48

Input Set : A:\Substitute Sequence Listing.ST25.txt  
 Output Set: N:\CRF4\01282005\J617619A.raw

|     |            |             |            |           |     |     |     |     |     |     |     |     |     |     |     |     |
|-----|------------|-------------|------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 77  | 145        | 150         | 155        | 160       |     |     |     |     |     |     |     |     |     |     |     |     |
| 80  | Lys        | Gly         | Glu        | Cys       | Pro | Trp | Gln | Val | Leu | Leu | Leu | Val | Asn | Gly | Ala | Gln |
| 81  |            |             |            |           | 165 |     |     |     | 170 |     |     |     |     |     | 175 |     |
| 84  | Leu        | Cys         | Gly        | Gly       | Thr | Leu | Ile | Asn | Thr | Ile | Trp | Val | Val | Ser | Ala | Ala |
| 85  |            |             |            |           |     | 180 |     |     | 185 |     |     |     |     |     | 190 |     |
| 88  | His        | Cys         | Phe        | Asp       | Lys | Ile | Lys | Asn | Trp | Arg | Asn | Leu | Ile | Ala | Val | Leu |
| 89  |            |             |            |           |     | 195 |     |     | 200 |     |     |     |     |     | 205 |     |
| 92  | Gly        | Glu         | His        | Asp       | Leu | Ser | Glu | His | Asp | Gly | Asp | Glu | Gln | Ser | Arg | Arg |
| 93  |            |             |            |           |     | 210 |     |     | 215 |     |     |     |     |     | 220 |     |
| 96  | Val        | Ala         | Gln        | Val       | Ile | Ile | Pro | Ser | Thr | Tyr | Val | Pro | Gly | Thr | Thr | Asn |
| 97  | 225        |             |            |           |     | 230 |     |     | 235 |     |     |     |     |     | 240 |     |
| 100 | His        | Asp         | Ile        | Ala       | Leu | Leu | Arg | Leu | His | Gln | Pro | Val | Val | Leu | Thr | Asp |
| 101 |            |             |            |           |     | 245 |     |     | 250 |     |     |     |     |     | 255 |     |
| 104 | His        | Val         | Val        | Pro       | Leu | Cys | Leu | Pro | Glu | Arg | Thr | Phe | Ser | Glu | Arg | Thr |
| 105 |            |             |            |           |     | 260 |     |     | 265 |     |     |     |     |     | 270 |     |
| 108 | Leu        | Ala         | Phe        | Val       | Arg | Phe | Ser | Leu | Val | Ser | Gly | Trp | Gly | Gln | Leu | Leu |
| 109 |            |             |            |           |     | 275 |     |     | 280 |     |     |     |     |     | 285 |     |
| 112 | Asp        | Arg         | Gly        | Ala       | Thr | Ala | Leu | Glu | Leu | Met | Val | Leu | Asn | Val | Pro | Arg |
| 113 |            |             |            |           |     | 290 |     |     | 295 |     |     |     |     |     | 300 |     |
| 116 | Leu        | Met         | Thr        | Gln       | Asp | Cys | Leu | Gln | Gln | Ser | Arg | Lys | Val | Gly | Asp | Ser |
| 117 | 305        |             |            |           |     | 310 |     |     | 315 |     |     |     |     |     | 320 |     |
| 120 | Pro        | Asn         | Ile        | Thr       | Glu | Tyr | Met | Phe | Cys | Ala | Gly | Tyr | Ser | Asp | Gly | Ser |
| 121 |            |             |            |           |     | 325 |     |     | 330 |     |     |     |     |     | 335 |     |
| 124 | Lys        | Asp         | Ser        | Cys       | Lys | Gly | Asp | Ser | Gly | Gly | Pro | His | Ala | Thr | His | Tyr |
| 125 |            |             |            |           |     | 340 |     |     | 345 |     |     |     |     |     | 350 |     |
| 128 | Arg        | Gly         | Thr        | Trp       | Tyr | Leu | Thr | Gly | Ile | Val | Ser | Trp | Gly | Gln | Gly | Cys |
| 129 |            |             |            |           |     | 355 |     |     | 360 |     |     |     |     |     | 365 |     |
| 132 | Ala        | Thr         | Val        | Gly       | His | Phe | Gly | Val | Tyr | Thr | Arg | Val | Ser | Gln | Tyr | Ile |
| 133 |            |             |            |           |     | 370 |     |     | 375 |     |     |     |     |     | 380 |     |
| 136 | Glu        | Trp         | Leu        | Gln       | Lys | Leu | Met | Arg | Ser | Glu | Pro | Arg | Pro | Gly | Val | Leu |
| 137 | 385        |             |            |           |     | 390 |     |     | 395 |     |     |     |     |     | 400 |     |
| 140 | Leu        | Arg         | Ala        | Pro       | Phe | Pro |     |     |     |     |     |     |     |     |     |     |
| 141 |            |             |            |           | 405 |     |     |     |     |     |     |     |     |     |     |     |
| 144 | <210>      | SEQ         | ID         | NO:       | 2   |     |     |     |     |     |     |     |     |     |     |     |
| 145 | <211>      | LENGTH:     | 30         |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 146 | <212>      | TYPE:       | DNA        |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 147 | <213>      | ORGANISM:   | Human      |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 149 | <400>      | SEQUENCE:   | 2          |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 150 | gctagccacc | atggctccccc | aggccctcag |           |     |     |     |     |     |     |     |     |     |     |     | 30  |
| 153 | <210>      | SEQ         | ID         | NO:       | 3   |     |     |     |     |     |     |     |     |     |     |     |
| 154 | <211>      | LENGTH:     | 39         |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 155 | <212>      | TYPE:       | DNA        |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 156 | <213>      | ORGANISM:   | Human      |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 158 | <400>      | SEQUENCE:   | 3          |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 159 | cgagccccat | ttcccgatc   | cgcagagccc | aaatcttgt |     |     |     |     |     |     |     |     |     |     |     | 39  |
| 162 | <210>      | SEQ         | ID         | NO:       | 4   |     |     |     |     |     |     |     |     |     |     |     |
| 163 | <211>      | LENGTH:     | 39         |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 164 | <212>      | TYPE:       | DNA        |           |     |     |     |     |     |     |     |     |     |     |     |     |
| 165 | <213>      | ORGANISM:   | Human      |           |     |     |     |     |     |     |     |     |     |     |     |     |

RAW SEQUENCE LISTING DATE: 01/28/2005  
 PATENT APPLICATION: US/10/617,619A TIME: 16:22:48

Input Set : A:\Substitute Sequence Listing.ST25.txt  
 Output Set: N:\CRF4\01282005\J617619A.raw

167 <400> SEQUENCE: 4  
 168 cgagcccat ttccggatc cgagagccc aaatcttgt 39  
 171 <210> SEQ ID NO: 5  
 172 <211> LENGTH: 23  
 173 <212> TYPE: DNA  
 174 <213> ORGANISM: Human  
 176 <400> SEQUENCE: 5 23  
 177 ttgcccggccg tcgactcat tta  
 180 <210> SEQ ID NO: 6  
 181 <211> LENGTH: 701  
 182 <212> TYPE: PRT  
 183 <213> ORGANISM: Human  
 185 <400> SEQUENCE: 6  
 187 Met Val Ser Gln Ala Leu Arg Leu Leu Cys Leu Leu Leu Gly Leu Gln  
 188 1 5 10 15  
 191 Gly Cys Leu Ala Ala Gly Gly Val Ala Lys Ala Ser Gly Gly Glu Thr  
 192 20 25 30  
 195 Arg Asp Met Pro Trp Lys Pro Gly Pro His Arg Val Phe Val Thr Gln  
 196 35 40 45  
 199 Glu Glu Ala His Gly Val Leu His Arg Arg Arg Arg Ala Asn Ala Phe  
 200 50 55 60  
 203 Leu Glu Glu Leu Arg Pro Gly Ser Leu Glu Arg Glu Cys Lys Glu Glu  
 204 65 70 75 80  
 207 Gln Cys Ser Phe Glu Glu Ala Arg Glu Ile Phe Lys Asp Ala Glu Arg  
 208 85 90 95  
 211 Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp Gln Cys Ala Ser  
 212 100 105 110  
 215 Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln Leu Gln Ser Tyr  
 216 115 120 125  
 219 Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn Cys Glu Thr His  
 220 130 135 140  
 223 Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly Gly Cys Glu Gln  
 224 145 150 155 160  
 227 Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys Arg Cys His Glu  
 228 165 170 175  
 231 Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr Pro Thr Val Glu  
 232 180 185 190  
 235 Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg Asn Ala Ser Lys  
 236 195 200 205  
 239 Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro Lys Gly Glu Cys  
 240 210 215 220  
 243 Pro Trp Gln Val Leu Leu Val Asn Gly Ala Gln Leu Cys Gly  
 244 225 230 235 240  
 247 Thr Leu Ile Asn Thr Ile Trp Val Val Ser Ala Ala His Cys Phe Asp  
 248 245 250 255  
 251 Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu Gly Glu His Asp  
 252 260 265 270  
 255 Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg Val Ala Gln Val  
 256 275 280 285

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/617,619A

DATE: 01/28/2005  
TIME: 16:22:48

Input Set : A:\Substitute Sequence Listing.ST25.txt  
Output Set: N:\CRF4\01282005\J617619A.raw

259 Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn His Asp Ile Ala  
260 290 295 300  
263 Leu Leu Arg Leu His Gln Pro Val Val Leu Thr Asp His Val Val Pro  
264 305 310 315 320  
267 Leu Cys Leu Pro Glu Arg Thr Phe Ser Glu Arg Thr Leu Ala Phe Val  
268 325 330 335  
271 Arg Phe Ser Leu Val Ser Gly Trp Gly Gln Leu Leu Asp Arg Gly Ala  
272 340 345 350  
275 Thr Ala Leu Glu Leu Met Val Leu Asn Val Pro Arg Leu Met Thr Gln  
276 355 360 365  
279 Asp Cys Leu Gln Gln Ser Arg Lys Val Gly Asp Ser Pro Asn Ile Thr  
280 370 375 380  
283 Glu Tyr Met Phe Cys Ala Gly Tyr Ser Asp Gly Ser Lys Asp Ser Cys  
284 385 390 395 400  
287 Lys Gly Asp Ser Gly Gly Pro His Ala Thr His Tyr Arg Gly Thr Trp  
288 405 410 415  
291 Tyr Leu Thr Gly Ile Val Ser Trp Gly Gln Gly Cys Ala Thr Val Gly  
292 420 425 430  
295 His Phe Gly Val Tyr Thr Arg Val Ser Gln Tyr Ile Glu Trp Leu Gln  
296 435 440 445  
299 Lys Leu Met Arg Ser Glu Pro Arg Pro Gly Val Leu Leu Arg Ala Pro  
300 450 455 460  
303 Phe Pro Gly Ser Ala Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys  
304 465 470 475 480  
307 Pro Pro Cys Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu  
308 485 490 495  
311 Phe Pro Pro Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu  
312 500 505 510  
315 Val Thr Cys Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys  
316 515 520 525  
319 Phe Asn Trp Tyr Val Asp Gly Val Glu Val His Asn Ala Lys Thr Lys  
320 530 535 540  
323 Pro Arg Glu Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu  
324 545 550 555 560  
327 Thr Val Leu His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys  
328 565 570 575  
331 Val Ser Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys  
332 580 585 590  
335 Ala Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser  
336 595 600 605  
339 Arg Asp Glu Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys  
340 610 615 620  
343 Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln  
344 625 630 635 640  
347 Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly  
348 645 650 655  
351 Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln  
352 660 665 670  
355 Gln Gly Asn Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn

RAW SEQUENCE LISTING DATE: 01/28/2005  
PATENT APPLICATION: US/10/617,619A TIME: 16:22:48

Input Set : A:\Substitute Sequence Listing.ST25.txt  
Output Set: N:\CRF4\01282005\J617619A.raw

356 675 680 685  
359 His Tyr Thr Gln Lys Ser Leu Ser Leu Ser Pro Gly Lys  
360 690 695 700  
363 <210> SEQ ID NO: 7  
364 <211> LENGTH: 232  
365 <212> TYPE: PRT  
366 <213> ORGANISM: Human  
368 <400> SEQUENCE: 7  
370 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala  
371 1 5 10 15  
374 Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro  
375 20 25 30  
378 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val  
379 35 40 45  
382 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val  
383 50 55 60  
386 Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln  
387 65 70 75 80  
390 Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln  
391 85 90 95  
394 Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala  
395 100 105 110  
398 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro  
399 115 120 125  
402 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr  
403 130 135 140  
406 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser  
407 145 150 155 160  
410 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr  
411 165 170 175  
414 Lys Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr  
415 180 185 190  
418 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe  
419 195 200 205  
422 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys  
423 210 215 220  
426 Ser Leu Ser Leu Ser Pro Gly Lys  
427 225 230  
430 <210> SEQ ID NO: 8  
431 <211> LENGTH: 641  
432 <212> TYPE: PRT  
433 <213> ORGANISM: Artificial  
435 <220> FEATURE:  
436 <223> OTHER INFORMATION: Synthetic  
439 <220> FEATURE:  
440 <221> NAME/KEY: misc\_feature  
441 <222> LOCATION: (6)..(7)  
442 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
444 <220> FEATURE:

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 01/28/2005  
PATENT APPLICATION: US/10/617,619A TIME: 16:22:49

Input Set : A:\Substitute Sequence Listing.ST25.txt  
Output Set: N:\CRF4\01282005\J617619A.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 6,7,14,16,19,20,25,26,29,35  
Seq#:8; Xaa Pos. 6,7,14,16,19,20,25,26,29,35

### Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,8,9,10,11,12,13,14

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/617,619A

DATE: 01/28/2005

TIME: 16:22:49

Input Set : A:\Substitute Sequence Listing.ST25.txt  
Output Set: N:\CRF4\01282005\J617619A.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
M:341 Repeated in SeqNo=1  
L:476 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0  
M:341 Repeated in SeqNo=8